DEMO WEEK AT SUNSET ELECTRONICS

INFORMATION 5 1500 2 0 6 8 AND

SAN FRANCISCO / BAY AREA

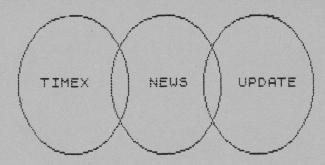
ISSUE 4

VOLUME 1

OCTOBER

\$1.00

HSERS



If the print in this column seems different from usual, it is because this article is being produced on the new 2068 computer from Timex. Sam Barron has received two sample machines from corporate headquarters and he has graciously allowed TIM LINEZ to borrow one. This is TIMEprobably the first published matter in the world to be pro-duced on the 2068. Once again TIMELINEZ is on the leading edge of technology.

There is not too much more to report on new products other than what was listed in our last issue. It seems pretty certain that the 2068 will be the only model sold and that the 2048 has This probably been scrapped. makes a lot of sense when you consider the realities of the current marketplace.

Much attention has been focused on the bank switching feature of the 2068. Bank switching gives the computer the ability to access up to 256*64K. This works out to 16 million bytes of memory. For practical purposes this means that you can exit a program and instantly access an external ROM memory for any purpose before returning to your program.

The tape handling capabilities of the 2068 have been greatly improved over those of the T51000. Load and save is much quicker (about 5 times the speed of the 1000) and a good load is achieved almost every try. The keys are made hard plastic and have a very good ''feel''. The keys are made out of

Although the suggested retail price for the 2068 is \$199.99, it is already listed in the new BEST catalog for \$148.32. BEST says that it will not be available in their stores until November.

TIMEX / SINCLAIR

Sunset Electronics in San Francisco is having a special TIMEX Demonstration Week celebration on Sep. 17-25. They plan to have a TIMEX representative on hand to answer questions and demonstrate products. Please see their ad for more details.

The 2068 has One final note. already been on display at both the Peninsula and the South Bay user group meetings. The next user group meetings. The ne chance to view it will be on Sept. 15 at the East Bay meet-All are invited to come. ing.

TIMELINEZ (C) IS THE JOINT PUBLICATION OF THREE TIMEX/ SINCLAIR USER GROUPS IN THE SAN FRANCISCO / OAKLAND BAY OLD AND NEW MEMBERS AREA. ARE ALWAYS WELCOME - SO ARE HARDWARE, SOFTWARE, AND COMPUTER BEGINNERS. SEE YOU AT THE NEXT MEETING.

EUTURE:	MEETINGS
SOUTH BAY	LAST TUESDAY SEPTEMBER 27 OCTOBER 25
PENINSULA (PUG)	THIRD SUNDAY SEPTEMBER 18 OCTOBER 16
EAST BAY (EBZUG)	THIRD THURSDAY SEPTEMBER 15 OCTOBER 20

AMATEUR RADIO BY: TEDDY E. HELDERMAN

interested in those using their ZX80/81 or Timex/Sinclair TS1000 computer in conjunction with their amateur radio equipment should send for a COPY QZX. This is newsletter devoted to the of use Timex/Sinclair Computers conjunction with amateur radio.

Write to QZX 2025 O'Donnell Cruces, Drive. NM88001: Las Subscription price is \$12.00/yr.

Members TimelineZ who interested in amateur radio in conjunction with with their Timex/sinclair computers should George Knighton, KB6WA after the general meeting SBZUG or call him at (415) 657-5347.

For those who are interested there is a ZX80/81, TS1000 Amateur Radio Network that meets on the following schedule:

EAST COAST

Location Time/Day Sys. ops. 7.240MH 1700Z Sun. K2ZF

2. 3.980MH 01002 Sat **N3CJP**

7.228MH 1900Z Sat K4KEP 4. 7.228MH 1900Z Sun K4KEP

GENERAL USA

5. 14.345MH 0100Z Thu NU4V 6. 14.329MH 2000Z Sun WYCQD

7.245MH 0001Z Wed WYCQD

> WEST COAST

7.235MH 1800Z Sat WGAMW

8/83

PLEAS

WHENEVER YOU PURCHASE MERCHANDISE FROM ONE OF OUR ADVERTISERS - LET THEM KNOW YOU SAW THEIR AD IN TIMELINEZ.

IMEX

ZX 81 T/S 1500

DEMONSTRATION WEEK

T/S 1000 T/S 2068

FACTORY REPRESENTATIVES WILL BE ON HAND SEPT. 17 - 25 TO SHOW YOU THE ALL NEW T/S 1500 AND T/S 2068 COMPUTERS

T/S 1000 Computer \$2995

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SPECIAL HOURS

MON-FRI 10-7 SAT 9-5 SUN 10-5

TELL TIMEX CONTEST RESULTS

CONGRATULATIONS TO DENNIS
PARKER, KENDRIC SMITH, CHAS.
SIVASLIAN, JEFF BRAUN, SCOTT
OLDENDORPH, AND NICK CARACAL
FOR THEIR ENTRIES IN OUR CONTEST. SINCE WE HAD A SMALLER
THAN EXPECTED RESPONSE, WE HAVE
DECIDED TO AWARD 4 5/W TAPES
TO EACH OF THOSE LISTED ABOVE.

IF EACH OF YOU WOULD SEND TIME-LINEZ YOUR CHOICE OF TIMEX TITLES ALONG WITH A COUPLE OF ALTERNATIVE CHOICES, WE WILL TRY TO HAVE YOUR PRIZES AT YOUR NEXT LOCAL USER GROUP MEETING. WE HAVE LISTED SOME OF THE ENTRIES BELOW AND WE WILL TRY TO LIST THE REST IN THE NEXT ISSUE. THANKS AGAIN FOR YOUR PARTICIPATION. ISSUE. THANKS PARTICIPATION.

DEAR TIMELINEZ,

ONE OF THE MAJOR PROBLEMS FACING
THE COMPUTER INDUSTRY IS POOR
DOCUMENTATION. WITH THE INTEREST IN COMPUTERS GROWING, PRODUGTS ARE BEING PURCHASED NOT
ONLY BY ENGINEERS AND COMPUTER
SCIENTISTS BUT OLSO BY EUEDYDOY DUGTS ARE BEING PURCHASED NOT ONLY BY ENGINEERS AND COMPUTER SCIENTISTS, BUT ALSO BY EVERYDAY PEOPLE LOOKING FOR SOFTWARE THAT WILL HELP THEM DO SOME SORT OF WORK OR PLAY AN EXCITING GAME.

WHEN A NEW COMPUTER USER APPROACHES A SOFTWARE DISPLAY,
HE VIEWS A NUMBER OF CASSETTES
WRAPPED IN CELLOPHANE THAT
CANNOT BE OPENED. IF YOU READ
THE OUTSIDE LETTERING, IT MAY
ONLY SAY SOMETHING LIKE, "ORGANIZER, 16K RAM", WHICH DOESN/T
TELL MUCH ABOUT WHAT THE PROGRAM
DOES. BECAUSE OF A LACK OF
INFORMATION ON THE OUTSIDE; COMBINED WITH A LACK OF FAMILIARITY
ON THE PART OF THE SALES PEOPLE,
I HAVE PASSED UP LOTS OF SOFTWARE THAT I WAS INTERESTED IN.

THERE/S ROOM ON THE CASSETTE TO USED--"LEAR USED--"LEAR OFTWARE WILL DO, HOW MUCH DATA COURSE YOU CAN BE PUT INTO THE FILES, WHAT COMPUTER." THE SCREEN DISPLAY LOOKS LIKE, ETC. IF MORE ROOM IS NEEDED FOR I HOPE THAT INFOMATION OR ILLUSTRATIONS, A BE USEFUL. LARGER CARDBOARD BOX CAN BE BUILT AROUND THE CASSETTE, MUCH LIKE SOME OF THE MUSIC VENDORS FINALLY, TIDO.

I THINK THE DOCUMENTATION FOUND INSIDE THE PACKAGE OF MOST PROGRAMS COULD ALSO STAND SOME IMPROVEMENT. IT NEEDS TO BE FRIENDLY AND COMPLETE, TELLING THE USER NOT ONLY HOW TO GET IT STARTED, BUT ALSO WHAT TO DO IF YOU GET STUCK OR HOW TO EXIT WITHOUT LOSING YOUR DATA.

SINCERELY, DENNIS J. PARKER

DEAR TIMELINEZ,

MY IDEA FOR TIMEX WOULD BE AN ADD ON MODULE THAT WOULD HAVE 84KB, A 4 LINE 32 CHARACTER LIQUID CRYSTAL DISPLAY, AND A BATTERY BACK-UP. THIS WOULD MAKE THE TIMEX A TRULY PORTABLE MACHINE THAT NEEDS NO MONITOR OR TV.

JEFF BRAUN

THE FOLLOWING EXCERPTS ARE TAKEN'
FROM AN ENTRY WHICH WAS TOO LONG TO REPRODUCE FULLY:

DEAR TIMEX:

...TIMEX DOESN/T KNOW WHAT IT IS DOING. I CALLED THE 800 NUMBER RECENTLY TO FIND SUPPLIERS OF PRINTER PAPER IN THE BAY AREA. AFTER A LONG PAUSE, THE PERSON GAVE ME THE NAMES OF SEVERAL STORES. WHEN I CALLED THEM I FOUND THAT THEY DON/T EVEN CARRY THE COMPUTER ANYMORE, MUCH LESS THE PAPER. SUNSET ELECTRONICS WAS NOT MENTIONED.

THE TIMEX DISPLAY HAS BEEN UP FOR WEEKS AT THE PAYLESS STORE IN MENLO PARK, BUT IT IS NOT FUNCTIONAL. WHEN THE EMPORIUM DID HAVE A DISPLAY, THERE WERE NO INSTRUCTIONS ON HOW TO USE IT, AND THE SALESPEOPLE HAD NO KNOWLEDGE ABOUT IT.

THERE SHOULD BE A GRAPHICS PROGRAM RUNNING ON THE SCREEN, WITH
A FREQUENT PAUSE TO INVITE A
CUSTOMER TO ENTER SOME INFORMATION TO WHICH THE COMPUTER THEN
RESPONDS, EG., GIVE YOUR AGE,
HEIGHT, SEX AND THE COMPUTER
RESPONDS WITH WHAT YOUR WEIGHT
SHOULD BE. THEN THE SALESMAN
ONLY NEEDS TO KNOW HOW TO LOAD
THE PROGRAM EACH DAY.

MAYBE TIMEX SHOULD GO BACK TO THE ORIGINAL ADS THAT SINCLAIR USED--"LEARN HOW TO PROGRAM_A_ COMPUTER: AFTER YOU FINISH THE COURSE YOU GET TO KEEP THE COMPUTER: THIS IS WHAT SOLD ME.

I HOPE THAT THESE COMMENTS WILL

SINCERELY YOURS, KENDRIC C. SMITH

FINALLY, TIMELINEZ THOUGHT IT IMPORTANT TO INCLUDE THE FOLLOWING ENTRY EVEN THOUGH IT WAS RECEIVED ANONYMOUSLY AND THEREFORE NOT ELIGIBLE FOR A

DEAR TIMELINEZ,

WE THINK THAT TIMEX SHOULD GIVE A FREE 2068 COMPUTER TO EVERYONE UHO WORKS ON THE STAFF OF THE TIMELINEZ NEWSLETTER. THIS WOULD ENCOURAGE GOODWILL BETWEEN TIMEX CORP. AND THOSE WHO WORK SO HARD TO CREATE AND MAINTAIN INTEREST FOR THE TIMEX COMPUTERS. THANKS.

PUG MEUS

WELL, WE FINALLY SAW IT AT OUR LAST MEETING. I/M TALKING ABOUT THE NEW 2068 COLOR COMPUTER OF COURSE. SAM BARRON OF TIMEX CORP. LOANED US A DEMO. MACHINE THAT HE HAD RECEIVED FROM HEADQUARTERS. I HAD TO PROMISE TO GUARD IT WITH MY LIFE BECAUSE IT WAS THE ONLY ONE HE HAD AT THE TIME.

EVERYTHING WENT WELL HOWEVER,
AND WE WERE ALL FAVORABLY
IMPRESSED. THANKS SAM, FOR
GIVING PUG THE FIRST CHANCE TO
EXAMINE THE 2068 IN THE BAY
AREA. IF YOU MISSED THE MEETING, WE WILL TRY TO GET IT AGAIN
NEXT MONTH.

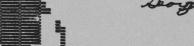
I WAS HAPPY TO SEE SOME NEW PEOPLE AT OUR LAST MEETING AND I HOPE THAT WE WILL BE PICKING UP MORE MEMBERS NOW THAT SUMMER IS ALMOST OVER, BE SURE AND TELL YOUR TIMEX FRIENDS ABOUT OUR GROUP.

PUG WILL BE HOSTING A BAY WIDE MEETING OF ALL THE USER GROUPS ON OCT. 16TH. THIS WILL BE ON OUR REGULAR MEETING SCHEDULE FOR OCT. SO PUG MEMBERS WILL NOT HAVE TO MAKE ANY SPECIAL PLANS. WE WILL START AN HOUR EARLY THOUGH. LET ME KNOW IF YOU WANT TO DISPLAY SOMETHING OR MAKE A PRESENTATION AT THIS EVENT.

WOULD ANYONE OUT THERE LIKE
TO TAKE OVER MY JOB AS COORDINATOR FOR TIMELINEZ?
TAKING CARE OF PUG AND THE
S/W LIBRARY AS WELL AS WORKING
ON TIMELINEZ IS GETTING TO BE
A BIT MUCH. I WOULD BE GLAD
TO SPEND AS MUCH TIME WITH
A NEW PERSON AS IT TAKES TO
BREAK HIM OR HER IN. THIS
OFFER APPLIES TO ALL THE
GROUPS. ANY VOLUNTEERS? YOU
WOULD BE WORKING WITH SOME GOOD
PEOPLE.

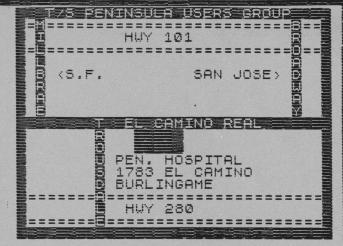
I HOPE TO SEE YOU ALL SEP. 48TH.





YOU CAN BE PART OF THE

fun as well.



MEETINGS ARE HELD ON THE 3RD SUNDAY OF EACH MONTH. PROPERTY SEP. 18TH **SPECIAL JOINT MEET. OCT. 16** MEET. ROOMS ARE ON LOWER FLOOR.

TREES PLEASE USE THE ENTRANCE ON THE NORTH SIDE OF THE HOSPITAL. ALSO TRY TO PARK ON NORTH SIDE, NOT IN THE VISITORS LOT, THANKS,

ELECTRICAL OUTLETS AND TABLES ARE AVAILABLE SO BRING YOUR EQUIP. AND EXTENSION CORDS IF POSSIBLE.

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MEMBERSHIP SCHEDULE:

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FOR MORE INFORMATION CONTACT:

GEORGE MOCKRIDGE 263 GATEWAY NO. 107 PACIFICA, CA 94044 (415) 359-3198

SEND NEWSLETTER CONTRIBUTIONS:

FRANK MOURA 858 CHENERY ST. 5AN FRANCISCO, CA. 94131 (415) 333-2231

SEE YOU AT THE NEXT MEETING

ATTENTION ALL BAY AREA USER GROUP MEMBERS.

THE PENINSULA GROUP
WILL HOST OUR THIRD
JOINT GET-TOGETHER ON
SUN. OCT. 16TH. ALL
USER GROUP MEMBERS ARE
INVITED.

FESTIVITIES WILL START AT 12:00 WITH A JOINT BUSINESS MEETING AT 2:00. COME AND MEET YOUR T/S NEIGHBORS.

EAST BAY TIMEX/SINCLAIR USERS

WE ARE AN EAST SAN FRANCISCO BAY/OAKLAND AREA COMPUTER USER GROUP SPECIALIZING IN TIMEX.SINCLAIR AND MAINLY OTHER Z80 BASED SYSTEMS. PRESIDENT JOEL BRODY USER PRESIDENT ACCUMENTS

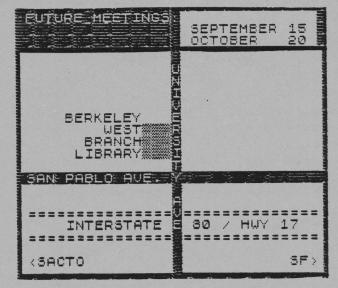
PRESIDENT: VICE PRES: TREASURER: SECRETARY: LIBRARIAN: EDITOR

JOEL BRODY
RICK LINK
WOODY MCPHEETERS
HENRY POLLARD
HENRY POLLARD
RICK LINK

MEETINGS ARE HELD ON THE THIRD THURSDAY OF EVERY MONTH AT THE WEST BRANCH OF THE BERKELEY PUBLIC LIBRARY. MEETINGS START AT 7:30 PM.

ANY QUESTIONS CONCERNING EBZUG SHOULD BE DIRECTED TO:

E B Z U G 654 40TH. STREET RICHMOND, CA 94805 (415)234-3310 CALL BEFORE 8:00 PM



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KEYSWITCHES FROM JAPAN AND DESIGN AND ASSEMBLY IN BRITAIN.

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2400 BAUD CASSETTE
PORT ARE INCLUDED.

CONTINUED ON PAGE 16



See Reverse Side For Details

Take

INFORMATION WANTED BY: D. K. Mason

a small manufacturing We operate want to know which company and the best software track of all aspects of OUL is too much out business. There there for us to try all of it so on we will rely your recommendations.

have Model 33 Telex Also, we a machine running at 110 baud on a RS-232 20 ma current loop serial interface, with a paper attached. The paper tape operates our other equipment and if an error occures, the entire begun again. must be tape manufacturers several to recommendations On how to Model 33 to the connect the that could TS1000 so we type video display terminal the to correct our errors order it fed into the having before tape punch. We hope to punch the tape attach paper the TS1000 if directly to

possible. having Anyone solution to our problem is asked D. K. to write to: Mason Street, 1209 Fritzen San Jose, CA95122

CONTINUED FROM PAGE 15

MEMORY CONSISTS OF 80K RAM, EXPANDABLE TO 512K - THIS EXPANDABLE TO 512K - THIS
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1. Purchase any two (2) Timex Sinclair software cassettes between July 15, 1983 and October 31, 1983.

2. Send us your sales receipt — on which you have circled the price of both programs AND the cardboard panel inside each cassette that indicates program name, program category, and serial number.

Mail both items to:

Timex Computer Corporation P.O. Box 2089 Saugatuck Station Westport, CT 06880

- 3. All submissions must be received by January 31, 1984.
- 4. Offer good only in U.S.A. Void where prohibited, taxed, or restricted.
 5. Please allow eight to ten weeks for delivery.

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Your Name)		
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(City)	(State)	(Zip Required
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of these two Timex	Sinclair prog	iains.
of these two Timex		
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LEARNING 288 ASSEMBLY LANGUAGE PROGRAMMING PART 3

In previous articles we discussed the registers, hex numbers, and wrote a routine to print a message to the screen. In this article we will take a look at a few principles involved with writing loops and accessing tables, toad the basic program from article two of this series, (UoI 1 Iss. 2), write to 4882h. Enter the hex codes in the left columns.

First we want to load the variable PMTR (pointer), with the address of TRBLE, PMTR will always told the current address in TRBLE of the byte we want to access, the most convenient way of loading a memory location with a value is to load a 16-bit register pair with this value,

(PHTR).HL

then loading the 16-bit address with the value in the register pair, He need to do this because there is no single instruction to load a emory location directly with data,

LD.

HL (PHTR)

This is the beginning a routine to access a single byte of 8-bit data from a Sable "PMTR is a program variable that we will use to keep track of the address of the next byte to access.

LD

Load the accumulator with the contents of the address pointed to by the HL register pair.

Incresent PMTR to the next address in the table 22 C8 48 LD (PMTR).HL

The last two instructions updated PMTR, and stored the value back in PMTR. It is very important to make sure all pointers, registers are updated, before continuing operations in general.

We will place the bute FF at the end of our table. This will provide us a means of stooping execution of the program. In this format we can have a table of any length and not have to change the code. We only have to resemb to place ${\sf FF}$ at the end,

The may out, if the contents of the accumulator and the contents of address pointed to by HL are the same the zero flag is set (1) and me mill return to basic, Of course me could CALL this routine from another program and this

instruction will return us to our program instead of ROSIC.

·CP

The next test we will perform will be to see if the contents of β is larger than $10h_\sigma$ which is the last line on the screen,

NC NOTPT

If the bute from the table is less than 18h then the CORRY flag is set (1) and the program continues, likewise, if the bute from the table is larger than 18h, the CORRY flag will be reset (8). We will then jump to location NXTPT and get the next bute from the table,

The byte we got from TABLE will be used as a counter for a loop that will enable us to get the starting address in the display file,

This begins the initialization section of the next loop.

21h is the length of one line in the display file.

This is the processing portion of the addition loop. To get the address for the program me add hijde times the number me got from TABLE.

DINZ

ADLP

B.28

Do it until register 8 = 8

INITL LD

Now we will begin to draw the line at the address produced from the previous foop, B now equals the number of characters to draw,

He are at the processing section of the drawing loop, Here we are loading the 8-bit location, addressed by the register pair HL, with the data 80h, which is the TIMEX character code for an inverse space, He could change this

to any character se sished.

COLL if you remember is like 905UB in basic. That is, we will goto TLOOP and then return to the next instruction. He need to have a timing loop here so we can see what happens on the screen, you could change the value in TLOOP later

CONTINUED ON PAGE 18

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TIMELINEZ

YOUR TIMEX SINCLAIR 1000 AND ZX81-BY DOUGLAS HERGERT PUBLISHED BY SYBEX - \$6.95

IF YOU ARE A BEGINNING TS/1000
ZX81 BASIC PROGRAMMER AND YOU
FIND THE SINCLAIR BASIC PROGRAMMING GUIDE TOO FORMIDABLE,
CONSIDER TRYING AGAIN WITH THIS
BOOK. IT GIVES A STRAIGHTFORWARD PLAIN LANGUAGUE INTRODUCTION TO BASIC AND INCLUDES A
BRIEF HARDWARE REVIEW. LIKE ALL
PROGRAMMING TEXTS, THIS ONE ONLY
COMES TO LIFE IF THE READER DOES
ALL OF THE SAMPLE EXERCISES.
PROGRAMS INCLUDE: RECTANGLE
PLOTTER, SUPER CALCULATOR, AND
BAR GRAPH. THE RND FUNCTION IS
INTRODUCED IN A PROGRAM WHICH
ALLOWS A LIMITED "CONVERSATION"
WITH THE COMPUTER. OPERATIONS
WHICH ARE NOT DISCUSSED IN THE
TEXT ARE: USR, PEEK, POKE,
STR\$, SCROLL, RAND, PAUSE, NOT.
THE APPENDIX LISTS VERY GOOD
EXPLANATIONS OR EXAMPLES OF ALL
BASIC OPERATIONS AND SINCLAIR
ERROR CODES. THIS BOOK WONT
MAKE YOU AN EXPERT PROGRAMMER,
BUT IT IS A GOOD PLACE TO START--WALTER MILLER

CONTINUED - FROM PAGE 17

on and see what happens,

B F8 DJNZ INL

This instruction decrements register 8," that we previously loaded, then tests the zero flag, If zero = 8 (not zero) then we go back to [NLP, If zero = 1 then we continue to the following instruction, DLM2 is what is called a jump relative instruction, Jump relative instructions do not jump to an absolute address, they jump a set amount of STEPS forward or backward, Toni Baker's book Nastering Nachine Code on your 2081 has an excellent description and a table of relative jumps, The subject is a lengthy one and we do not have the space here to do it justice.

96 29	SECLP	LD	8.20
36 00	SLOP	LD	(HL).8
28		DEC	H
CD BC 48		CALL	TLOOP
10 F8		DJNZ	SLOP
36 99		LD	(HL).0
		P	MYTPT

This is the reverse of the first loop, undrawing the line that we wrote in the first.

C5	TLOOP	PUSH	BC
01 00 01 06 78 01 C2 C0 40	TLOP	LD DEC LD OR JP	BC.0150 BC R.B C NZ.TLOP
C1 C9		POP	BC

This is a 16-bit timing loop, That is it can handle timings of up to 65536 decimal. If BC equals 8000 when entering it will start at FFFFh because the first instruction of TLOP decrements BC.

A0 00 PHTR This is the location of PHTR. It is merely a memory location me will use to store the table pointer. He must reserve two bytes ofd space here for it, so enter two bytes of zero's here.

00 00 00 00 00 00 TRBLE

Here enter any amount of zeros to accommodate the length of the table you mish to create, you may load the table later by writing to address 48CA.

BE SURE TO PLACE AN FFM AFTER YOUR TRBLE !!!

This program can be used as a subroutine in a game, One may would be to add another test (CP) for your character, a particular object etc.

You could also have your program write the table and then entering with CRLL.

F.J.H.

9/11/83

Dear Member of East Bay Timex Sinclair User's Group:

I am looking for people to sell computers on a commission basis. Presently we sell the Apple compatible Franklin and the Commodore with the associated hardware and software. In the future we plan to sell the IBM PC or an IBM clone.

One of the strong points of being a computer salesperson is the significant tax benefits. The hardware and software you buy is part of your business and can be deducted. If you are like me you find that there is always something more that you would like to add to your system(s).

If members of your organization are interested in using your computer awareness to help you make extra income this is the opportunity that may suit you.

For more information write or call me at the following address and telephone number:

Steven Perrott 1130 Larkin Apt. 33 San Francisco, California 94109 (415) 776-6752

Thank you for your attention to this opportunity.

BOOK REVIEW

BY: Jeanette Hancock

Essential The Guide to Timex/Sinclair Home Computers By: Peter Morse, Ian Adamson, and Brian Hancock Anrep,

excellent book to is an ZX81 or TS1000/2000 any better understanding user to a his computer of how to program more efficiently and effective-It's 14 all around. only book . 526 for pages \$8.95 at B. YOUR nearest Dalton's bookstore.

attracted me to it was the of information it at ammount price compared to other books at higher prices but less material. This book **ZX81** with

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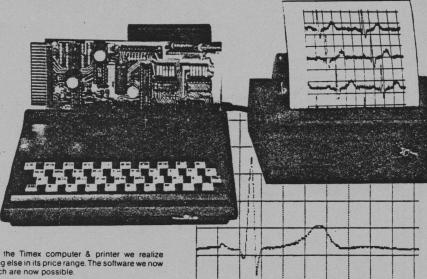
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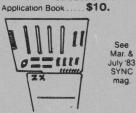
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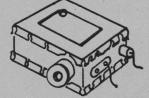
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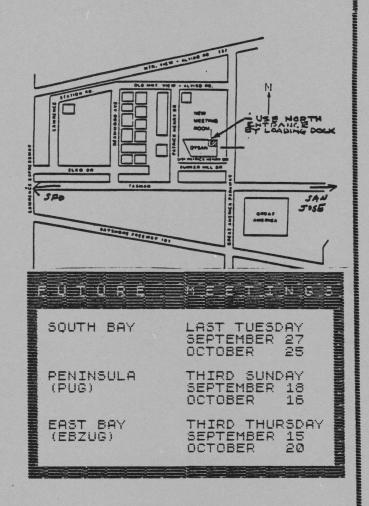
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PUBLISHING DEADLINE IS THE FIRST WEEKEND OF EACH MONTH. ALL CORRESPONDENCE SHOULD BE MAILED TO

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